GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA

STARRED QUESTION NO:267
ANSWERED ON:10.08.2000
GENERATION OF POWER THROUGH NCES
BRAJ MOHAN RAM;RENU KUMARI SINGH

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the power generated through non-conventional energy sources during each of the last three years; State-wise;

(b) the target fixed for the current financial year, State-wise;

(c) the details of the schemes by which power is generated through non-conventional energy sources; and

(d) the details of the Central assistance/ contribution for generating power through non-conventional energy sources in urban and rural areas?

Answer

MINISTER OF STATE FOR NON-CONVENTIONAL ENERGY SOURCES (INDEPENDENT CHARGE), (SHRI M. KANNAPPAN)

(a), (b), (c) & (d):- A Statement is laid on the Table of the House.

Statement Referred to in Reply to parts (a), (b), (c) & (d) ofLok Sabha Starred Question No. 267 to be answered on 10.8.2000 regarding generation of power through NCES asked by Shri Braj Mohan Ram & Shrimati Renu Kumari.

(a) (b) & (c) : The Ministry of Non-Conventional Energy Sources is implementing various non-conventional energy schemes / programmes for generation of power through Wind Power, Biomass Power / Co-generation, Biomass Gasifiers,Small Hydro Power, Solar Photovoltaics and Urban and Industrial Wastes. The State-wise and year-wise power capacity added from various non-conventional energy sources during the last three years as on 31.3.2000 is given at Annexure-I. The Ministry does not fix State-wise targets for power generation from non-conventional energy sources. The programme-wise physical targets fixed for the country as a whole during the current financial year 2000-01 are given at Annexure-II.

(d) : The details of Central Financial Assistance (CFA) provided under various programmes of non-conventional energy sources are given at Annexure-III.

Annexure-II referred to in reply to parts (a), (b) & (c) of Lok Sabha Starred Question No.267 to be answered on 10.8.2000 regarding generation of power through NCES.

Details of Programme-wise Physical Targets fixed for Current Financial Year 2000-2001.

Sl. No	Programme/Schemes	Physical Target for 2000-01	
1	Wind Power	200	MW
2	Biomass Power / Co-generation	60	MW
3	Small Hydro Power	40	MW
4	Solar Photovoltaic	300	kW
5	Biomass Gasifier	7	MW
6	Urban & Industrial Wastes to Energy	10	MW
	Total	317.3	MW

MW = Mega Watt.

Annexure-III referred to in reply to part (d) of Lok Sabha Starred Question No.267 to be answered on 10.8.2000 regarding generation of power through NCES.

The details of Central Financial Assistance (CFA) provided under various programmes of non-conventional energy sources

Sl. No.	Programmes/Sector	Subsidy
1.	Wind Power	For Demonstration Projects upto 60% of the equipment cost subject to certain bench marks.
2.	Biomass Gasifiers	30 to 60% on certain bench marks for projects owned by Cooperatives, Panchayats, NGOs, Central/State Agencies, individuals/entrepreneurs etc.
3.	Grid Interactive Solar PV Power	Rs. 2 crores/100 KW (Maximum)
4.	Biomass Power/Co-generation	Capital Subsidy
i.	Minimum exportable power 45 MW (in Group of Mills through Joint Venture Mode)	Rs. 35 lakhs/MW of surplus power (max. Rs.31.50 crores/project) for 60 bar and above and Rs.45 lakhs/MW of surplus power (max. Rs.40.50 crores/project) for 80 bar and above project.
ii.	Minimum exportable power 9 MW (Single Mill through Indpendent Power Producer Mode (IPP).	Rs. 35 lakhs/MW of surplus power (max. Rs.6.30crores/project) for 60 bar and above and Rs.45 lakhs/MW of surplus power (max. Rs.8.10 crores/project).
		To reduce interest rate by 1% to 3% subject to minimum interest not less than 11%.
		Interest Subsidy
5.	Urban Municipal & Industrial Waste	
a.	Capital subsidy	Upto 50 % max. 3.00 crores per MW for innovative demonstration projects.
b.	Interest subsidy	To reduce interest rate upto 7.5% to be paid to Financial Institutions. Subject to certain limits based on type of projects.
6.	Small Hydro Power	
a.	Capital Subsidy	
i.	N E Region and Sikkim	Up to Rs.6.00 crores per MW
ii.	Middle Himalayas, Ladakh, A&N	Up to Rs.4.50 crores per MW
iii.	Other Hilly areas	Up to Rs.3.00 crores per MW
b.	Interest Subsidy	
i.	Hilly areas, N E Region and A&N	7.5% to 2%
ii.	Other areas	5% to 1.5%

MW = Mega Watt.

State-wise and Year-wise power capacity added under various non-conventional energy programmes during the last three years as on 31.3.2000.

Sl. No.	State/UT	Wind Power Programme			Solar Photovoltaic Power			Small Hydro Power		
		1997-98	1998-99	99-2000	1997-98	1998-99	99-2000	1997-98	1998-99	99-2000
		(MW)			(kW)			(MW)		
1	Andhra Pradesh	1.50	6.00	26.25	~	100.00	~	~	14.01	12.10
2	Arunanchal Pra	~	~	~	~	~	~	~	~	~
3	Assam	~	~	~	~	~	~	~	0.20	~
4	Bihar	~	~	~	~	~	~	~	0.40	0.01
5	Goa	~	~	~	~	~	~	~	~	~
6	Gujarat	20.10	~	~	~	~	~	~	~	~
7	Haryana	~	~	~	~	~	~	~	~	~
8	Himachal Pra	~	~	~	~	~	~	~	0.13	2.00
9	Jammu & Kashmir	~	~	~	~	~	~	~	4.00	~
10	Karnataka	11.17	2.63	14.59	~	~	~	7.10	2.75	5.40
11	Kerala	~	~	~	~	~	~	~	2.00	~
12	Madhya Pradesh	2.70	6.16	4.14	~	~	~	~	2.41	~
13	Maharashtra	0.23	23.34	50.35	~	~	~	2.50	0.21	~
14	Manipur	~	~	~	~	~	~	~	~	~
15	Meghalaya	~	~	~	~	~	~	~	0.10	~
16	Mizoram	~	~	~	~	~	~	~	0.01	6.39
17	Nagaland	~	~	~	~	~	~	~	0.70	
18	Orissa	~	~	~	~	~	~	~	0.06	~
19	Punjab	~	~	~	100.00	~	~	2.00	4.50	
20	Rajasthan	~	~	2.00	~	~	~	~	0.53	
21	Sikkim	~	~	~	~	~	~	~	0.15	~
22	Tamil Nadu	31.14	17.77	45.68	~	~	~	~	~	~
23	Tripura	~	~	~	~	~	~	~	~	~
24	Uttar Pradesh	~	~	~	125.00	~	~	1.50	0.10	~
25	West Bengal	~	~	~	~	25.00	~	~	~	~
26	A & Nicobar	~	~	~	~	50.00	50.00	~	~	~
27	Chandigarh	~	~	~	~	~	~	~	~	~
28	D & N Haveli	~	~	~	~	~	~	~	~	~
29	Daman & Diu	~	~	~	~	~	~	~	~	~
30	Delhi	~	~	~	~	~	~	~	~	~
31	Lakshwadeep	~	~	~	100.00	~	100.00	~	~	~
32	Pondicherry	~	~	~	~	~	~	~	~	~
33	Others	~	~	~	~	~	~	~	~	~
	Total	66.83	55.89	143.00	225.00	275.00	150.00	11.10	28.57	33.58

MW = Mega Watt
kW = kilo watt

Sl. No.	State/UT	Biomass Power			Biomass Gasifier			Energy from Wastes		
		1997-98	1998-99	99-2000	1997-98	1998-99	99-2000	1997-98	1998-99	99-2000
		(MW)			(KW)			(MW)		
1	Andhra Pradesh	~	10.00	1.00	1000.00	2300.00	3630.00	0.25	~	4.70
2	Arunanchal Pra.	~	~	~	~	~	~	~	~	~
3	Assam	~	~	~	~	~	~	~	~	~
4	Bihar	~	~	~	~	~	~	~	~	~
5	Goa	~	~	~	~	~	~	~	~	~
6	Gujarat	~	0.50	~	~	5.00	~	~	2.00	~
7	Haryana	~	~	~	~	~	~	~	~	~
8	Himachal Pra.	~	~	~	~	~	~	~	~	~
9	Jammu & Kashmir	~	~	~	~	~	~	~	~	~
10	Karnataka	~	10.00	26.00	860.00	500.00	10.00	~	~	1.00
11	Kerala	~	~	~	~	~	~	~	~	~
12	Madhya Pradesh	~	5.00	~	~	100.00	~	~	~	2.70
13	Maharashtra	~	~	~	~	100.00	200.00	~	~	~
14	Manipur	~	~	~	~	~	~	~	~	~
15	Meghalaya	~	~	~	~	~	~	~	~	~
16	Mizoram	~	~	~	~	~	~	~	~	~
17	Nagaland	~	~	~	~	~	~	~	~	~
18	Orissa	~	~	~	10.00	~	~	~	~	~
19	Punjab	~	~	~	~	~	~	0.75	~	~

20	Rajasthan	~	~	~	~	~	~	~	~
21	Sikkim	~	~	~	~	~	~	~	~
22	Tamil Nadu	33.50	10.00	~	130.00	70.00	120.00	~	~ 0.06
23	Tripura	~	~	~	~	~	~	~	~
24	Uttar Pradesh	8.00	8.00	24.00	~	~	~	1.00	~ ~
25	West Bengal	~	~	~	500.00	~	30.00	~	~ ~
26	A & Nicobar	~	~	~	~	~	~	~	~ ~
27	Chandigarh	~	~	~	~	~	~	~	~ ~
28	D & N Haveli	~	~	~	~	~	~	~	~ ~
29	Daman & Diu	~	~	~	~	~	~	~	~ ~
30	Delhi	~	~	~	~	~	~	~	~ ~
31	Lakshwadeep	~	~	~	~	~	~	~	~ ~
32	Pondicherry	~	~	~	~	~	~	~	~ ~
33	Others	~	~	~	~	~	~	~	~ ~
	Total	41.50	43.50	51.00	2490.00	3085.00	3990.00	2.00	2.00 8.46

MW = Mega Watt
kW = kilo watt